

CLAIM AMENDMENTS

1. (Original) A mass spectrometer system comprising:
 - a pulsed ion source, for providing pulses of analyte ions;
 - a mass spectrometer;
 - an ion path extending between the ion source and the mass spectrometer;

and

an ion transmission device located in said ion path and having a damping gas in at least a portion of the ion path, whereby there is effected at least one of: a reduction in the energy spread of ions emitted from said ion source; conversion of pulses of ions from the ion source into a quasi-continuous beam of ions; at least partial suppression of unwanted fragmentation of analyte ions; and spreading ions spatially and temporally along the ion path, whereby peak current and space charge effects are reduced.

Please cancel claims 2-43.

Respectfully submitted,



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